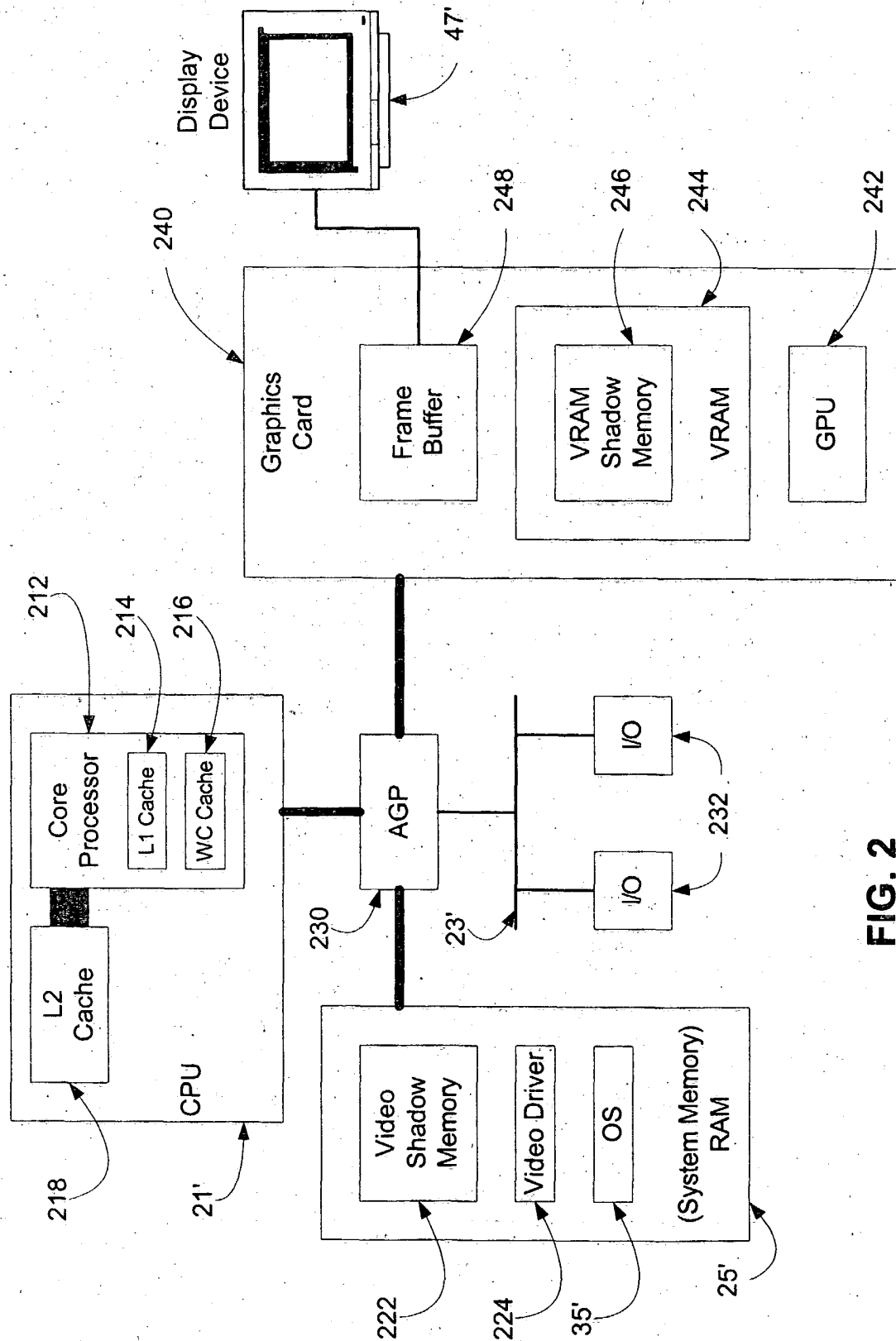
**FIG. 1**

**FIG. 2**

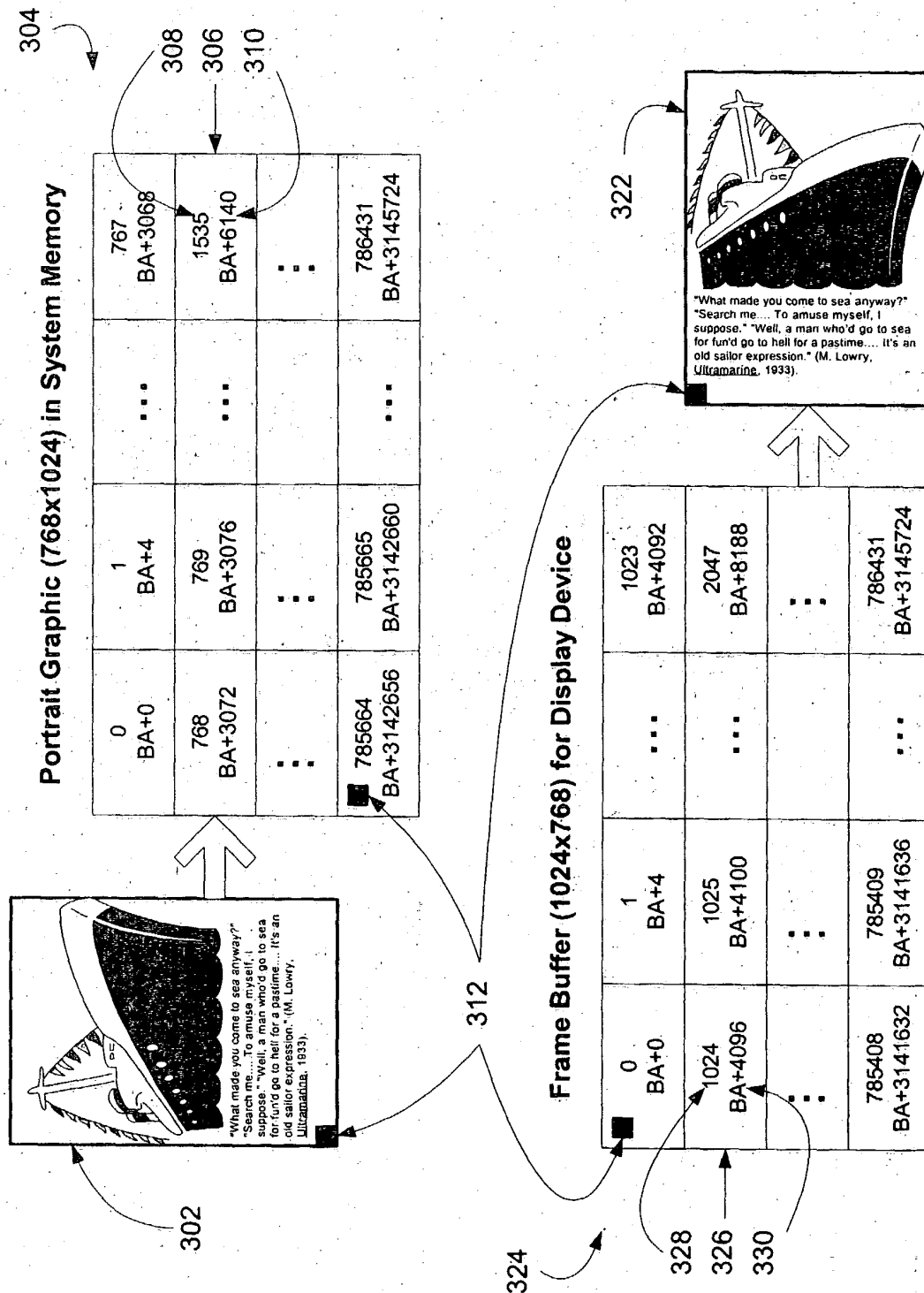
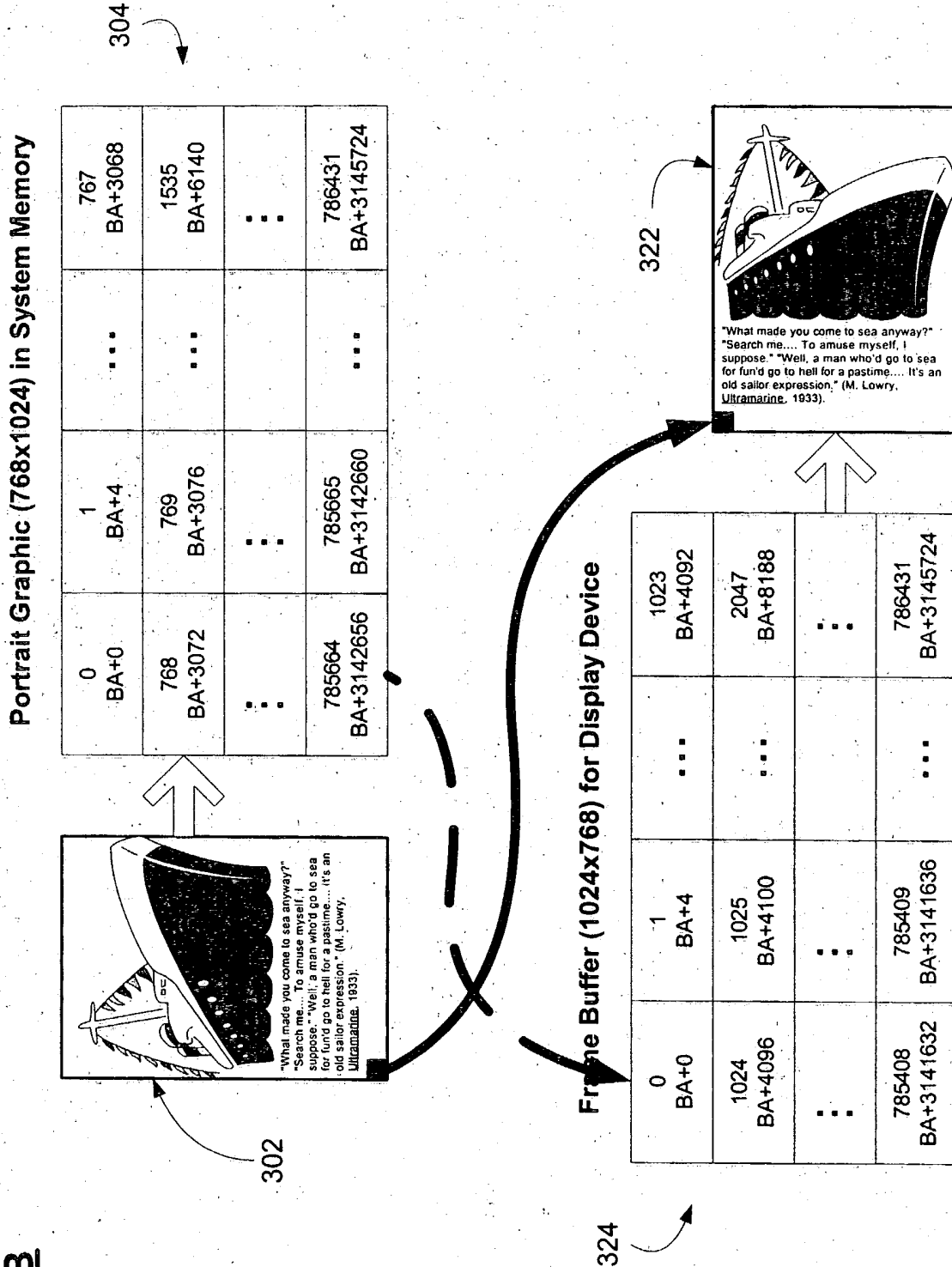
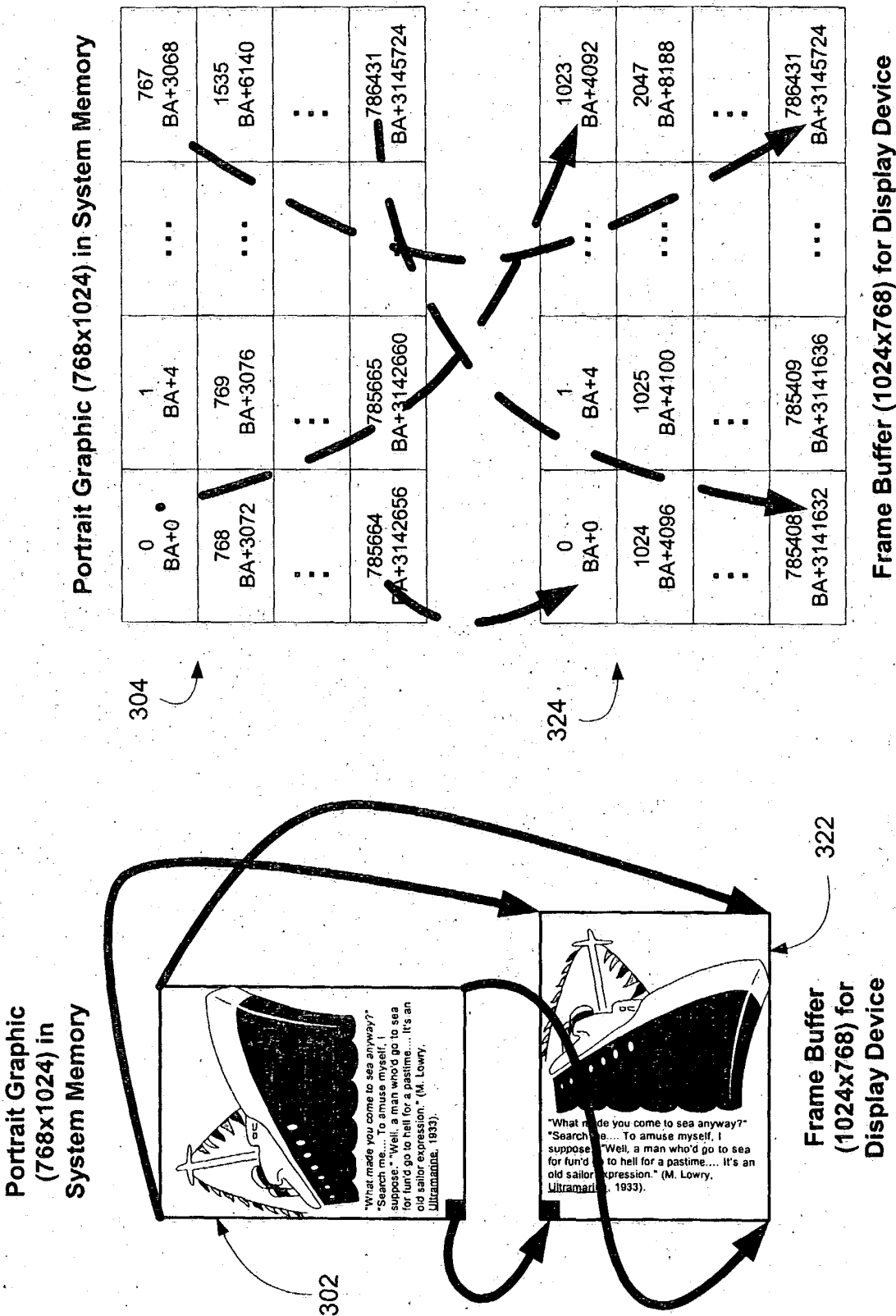


FIG. 3B





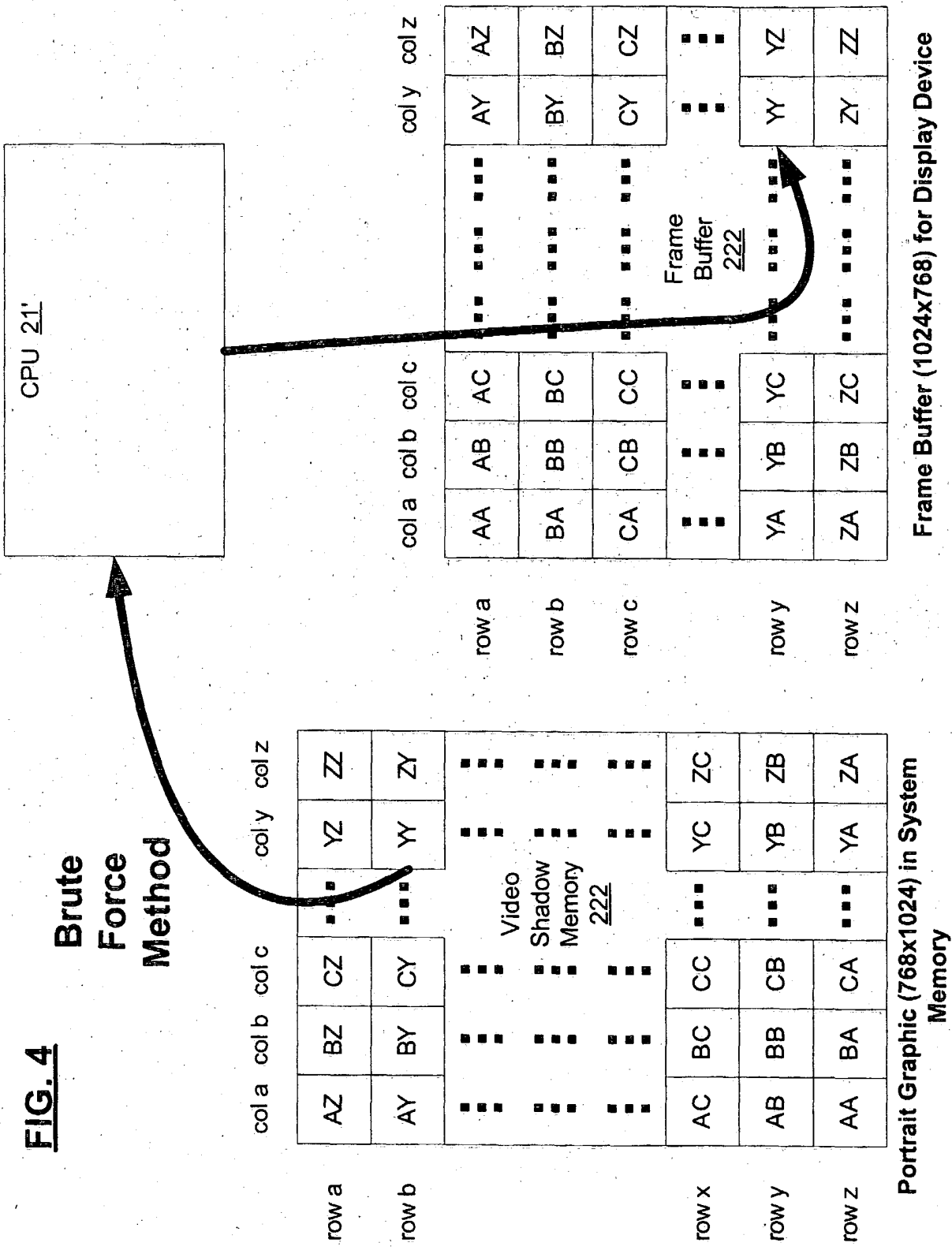


FIG. 5

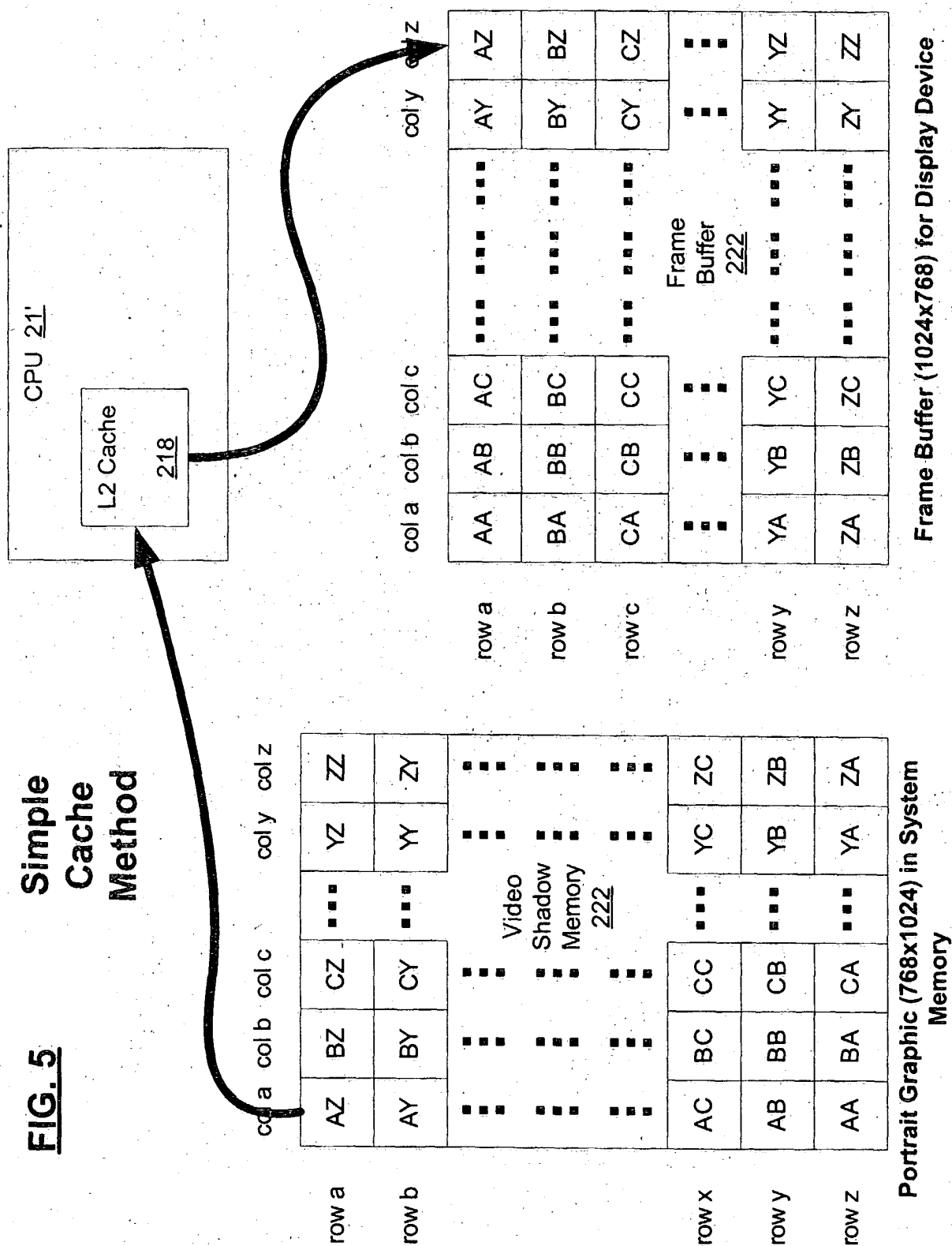


FIG. 6

Write-Combine Method

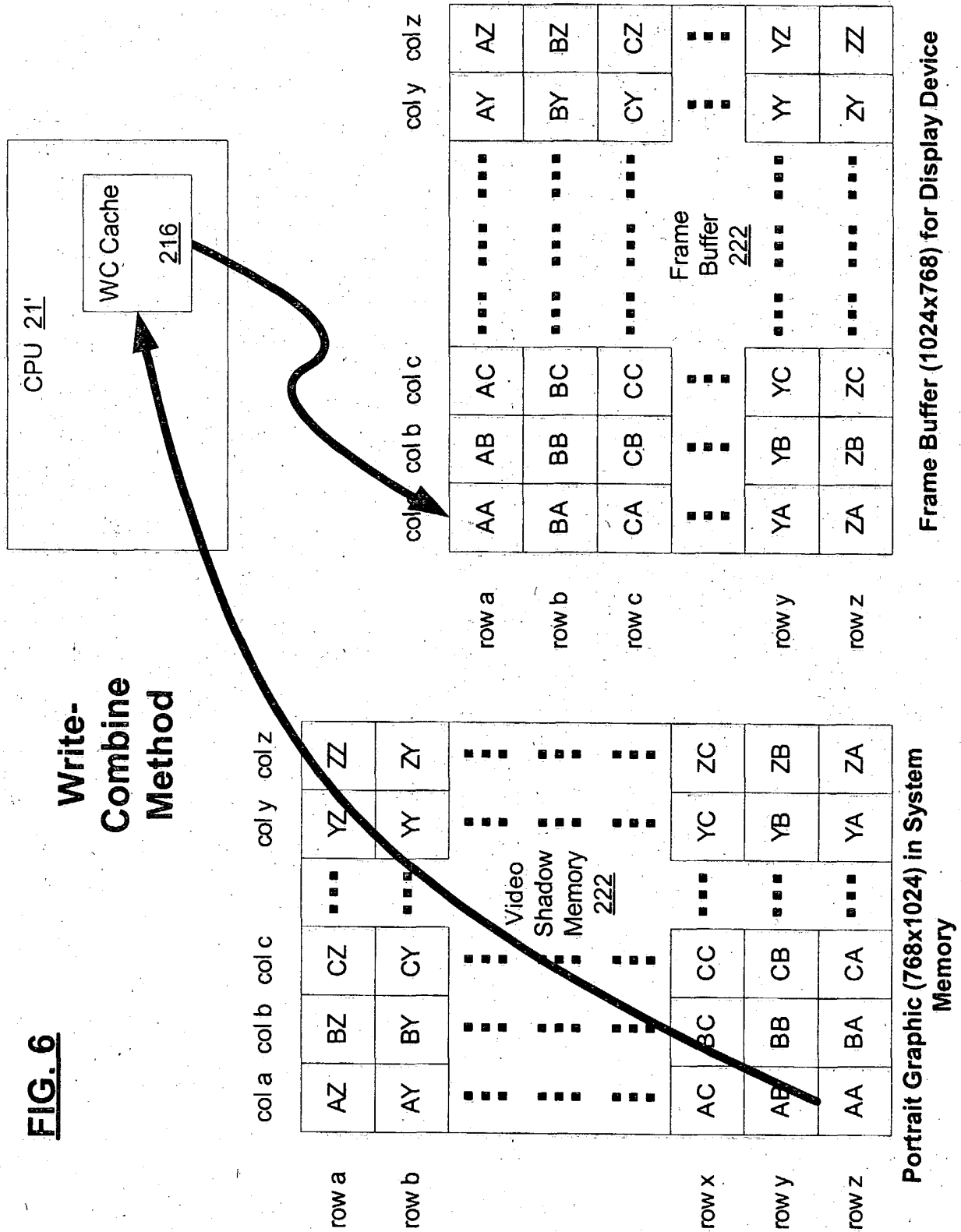
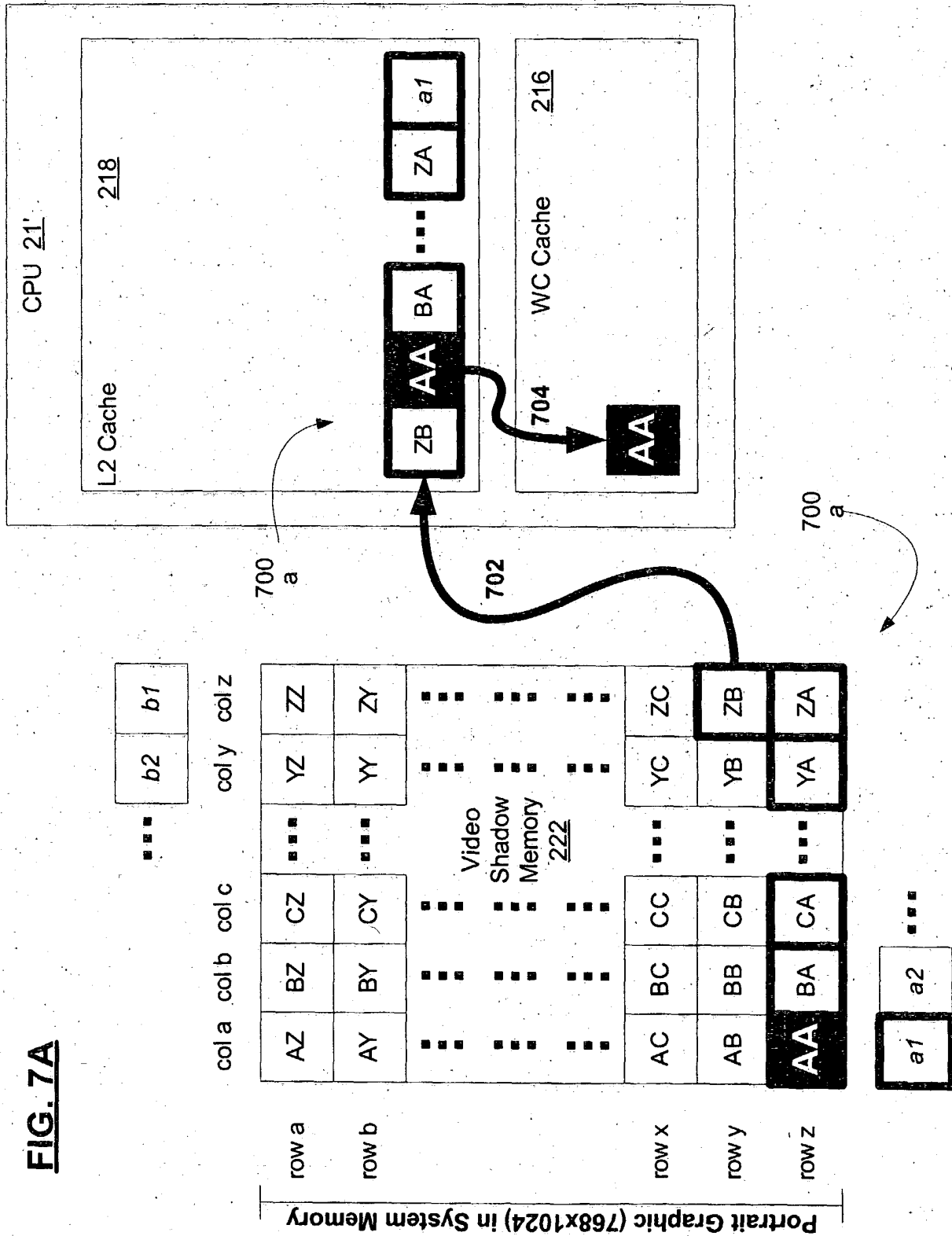


FIG. 7A



Portrait Graphic (768x1024) in System Memory

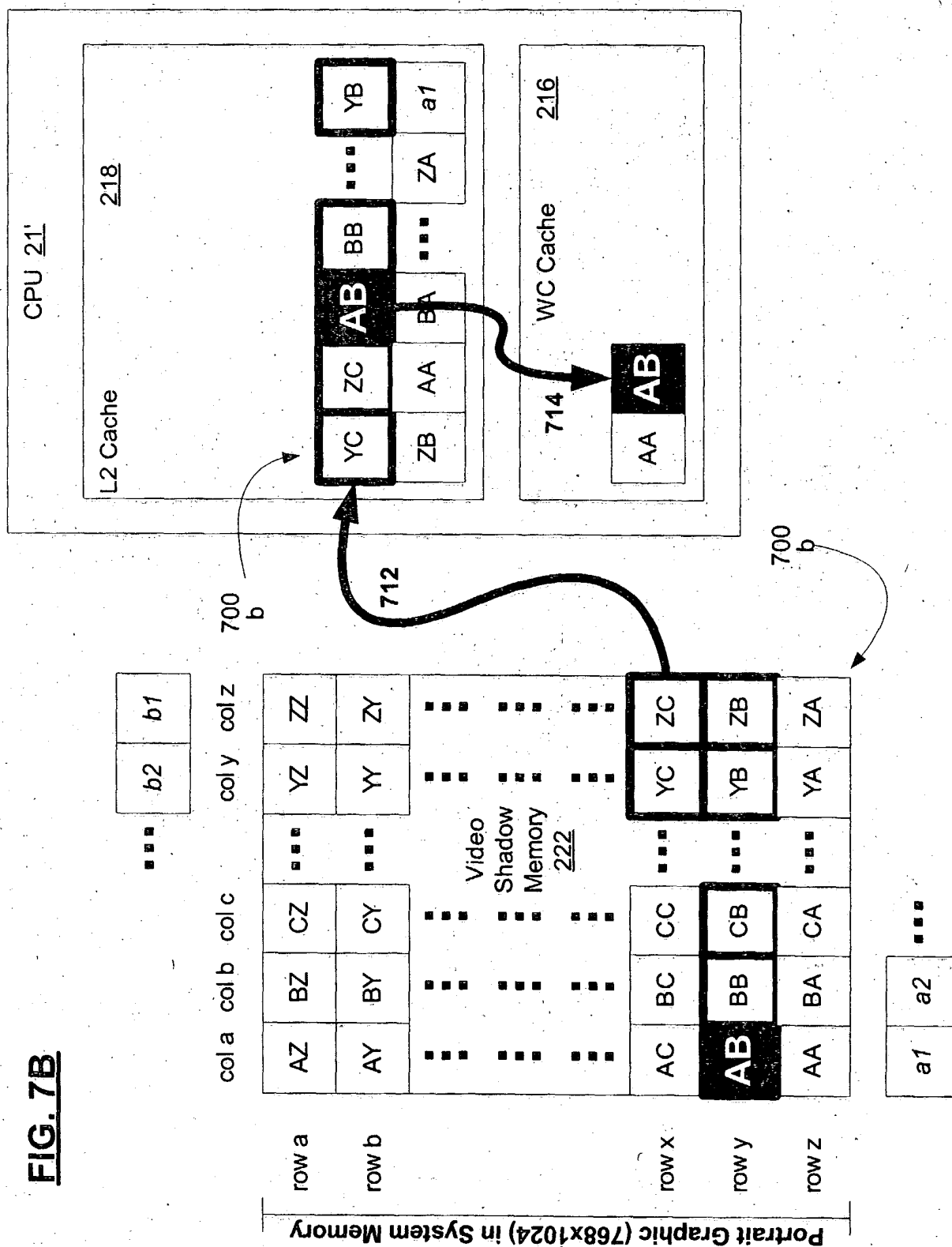
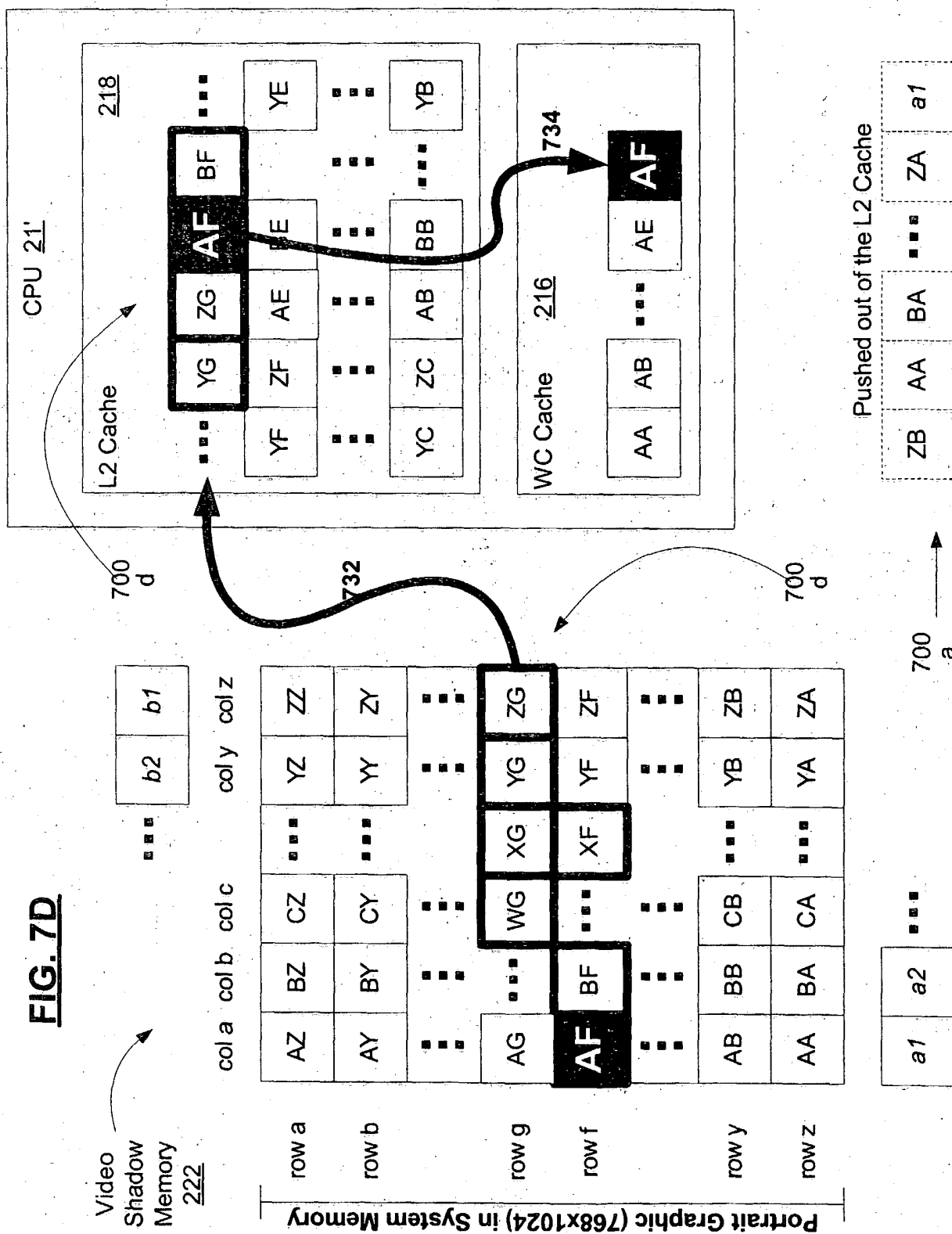
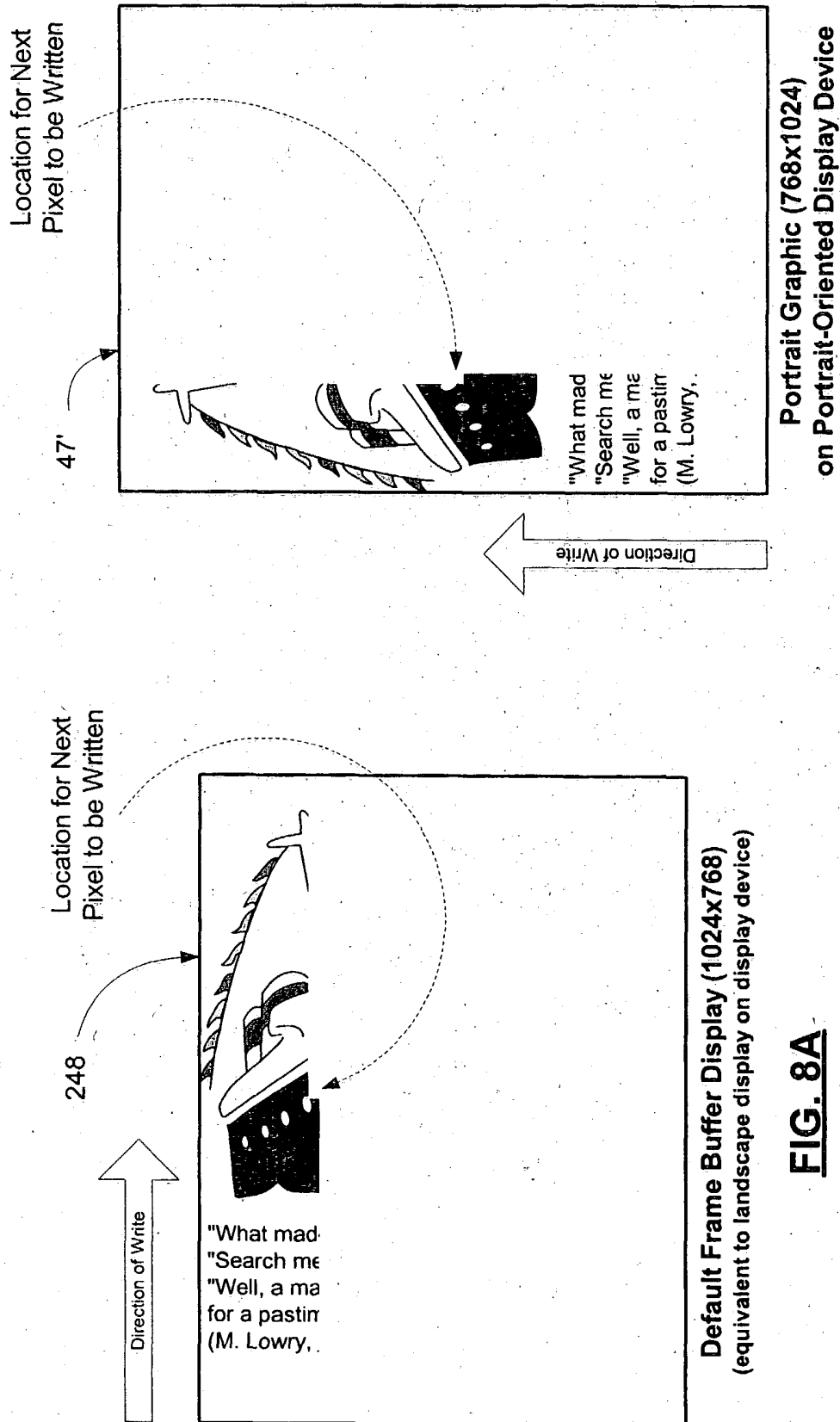


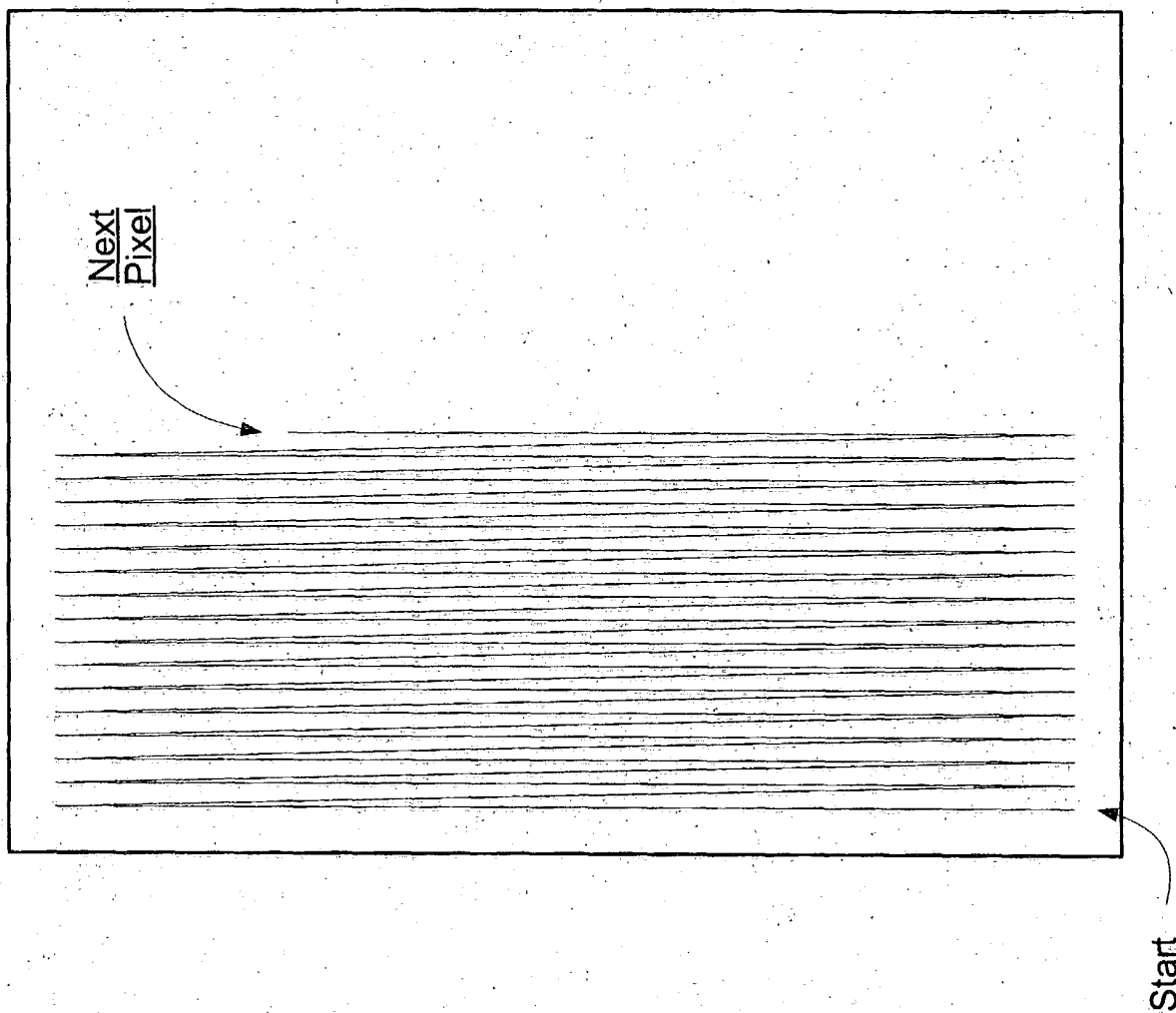
Figure 1 illustrates the data flow and storage for a 768x1024 pixel image in system memory and L2 cache. The diagram shows a 700c video stream input to a Video Shadow Memory (722) and an L2 Cache (724). The Video Shadow Memory contains a 768x1024 pixel image with rows a, b, f, e, y, z. The L2 Cache contains a 768x1024 pixel image with rows a, b, f, e, y, z. The L2 Cache also contains a 700c video stream input. The L2 Cache is connected to a WC Cache (724) which contains a 700c video stream input. The L2 Cache is also connected to a 700c video stream input. The L2 Cache is also connected to a 700c video stream input.

FIG. 7D



[illegible]

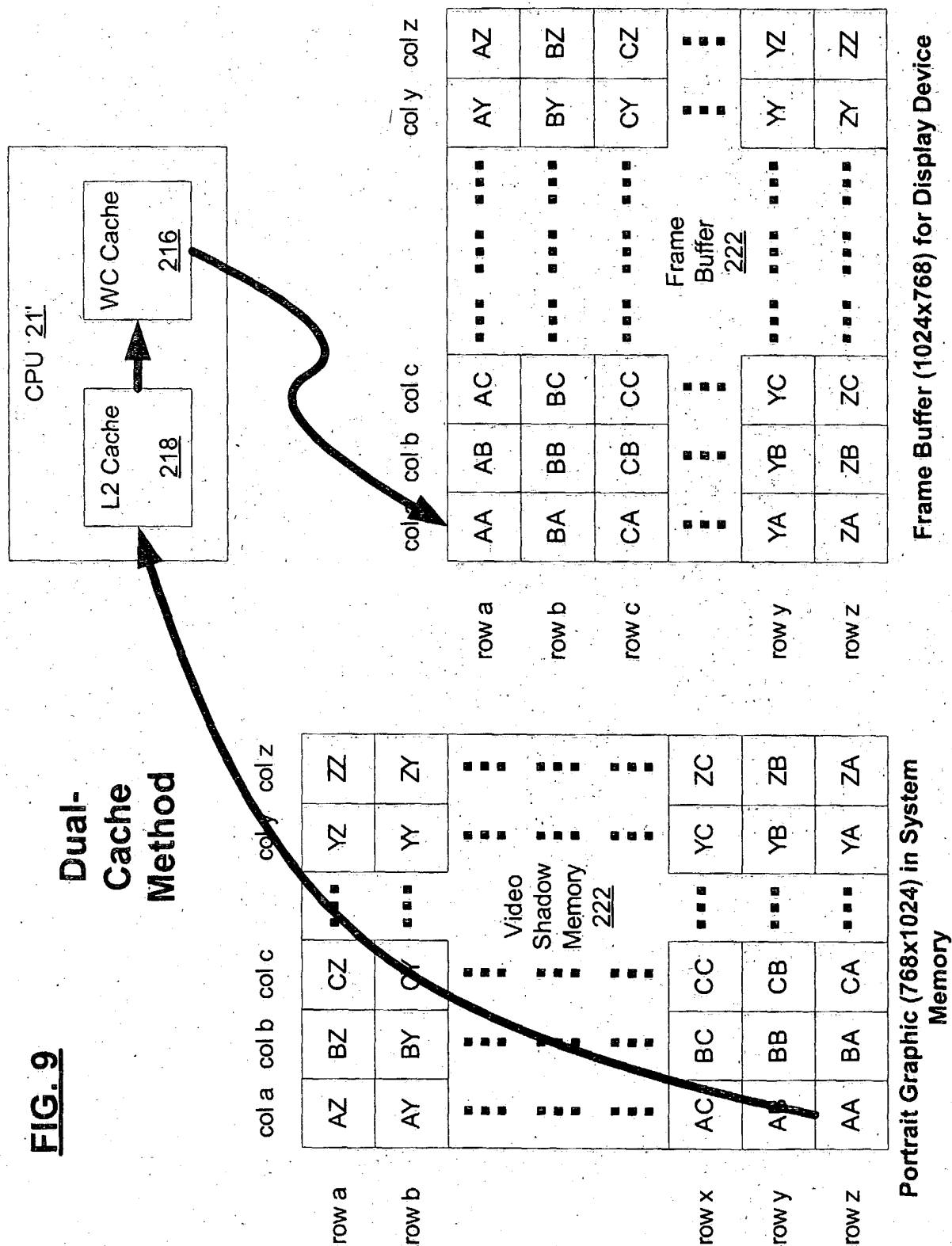
**FIG. 8B****FIG. 8A**

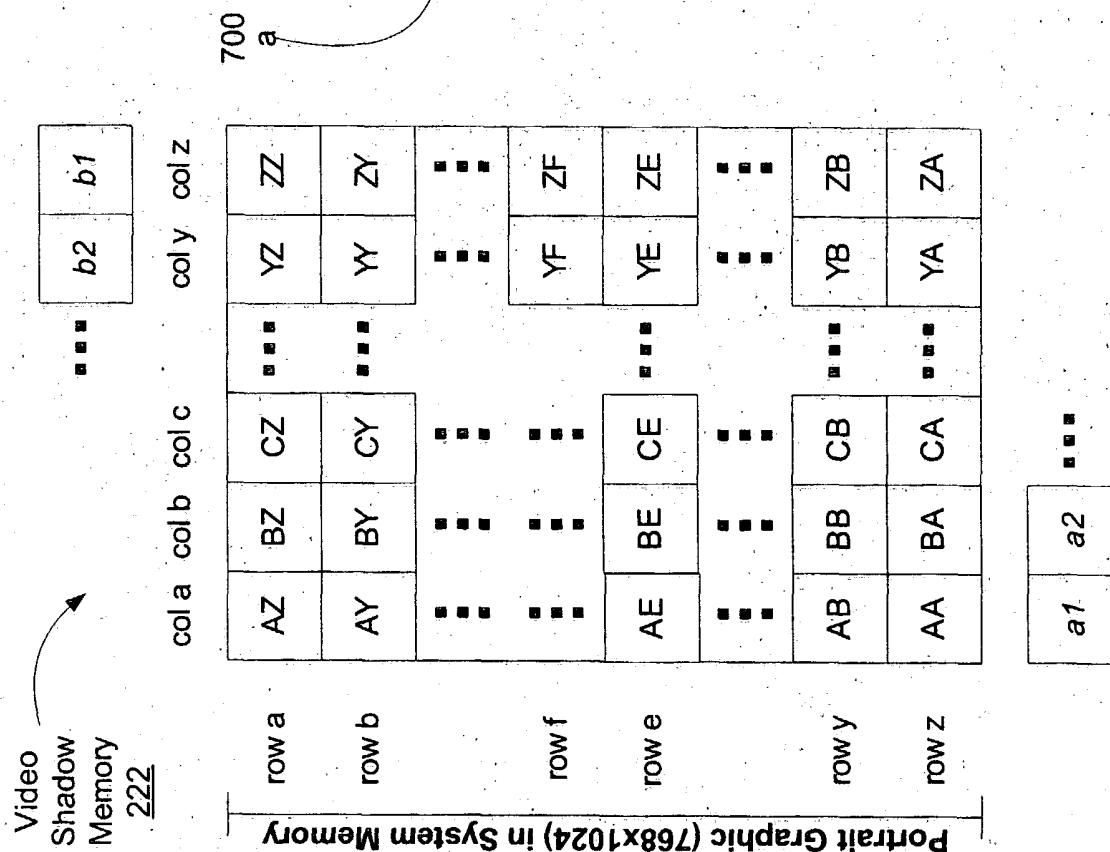
**FIG. 8C**

Portrait Graphic (768x1024)
on Portrait-Oriented Display Device

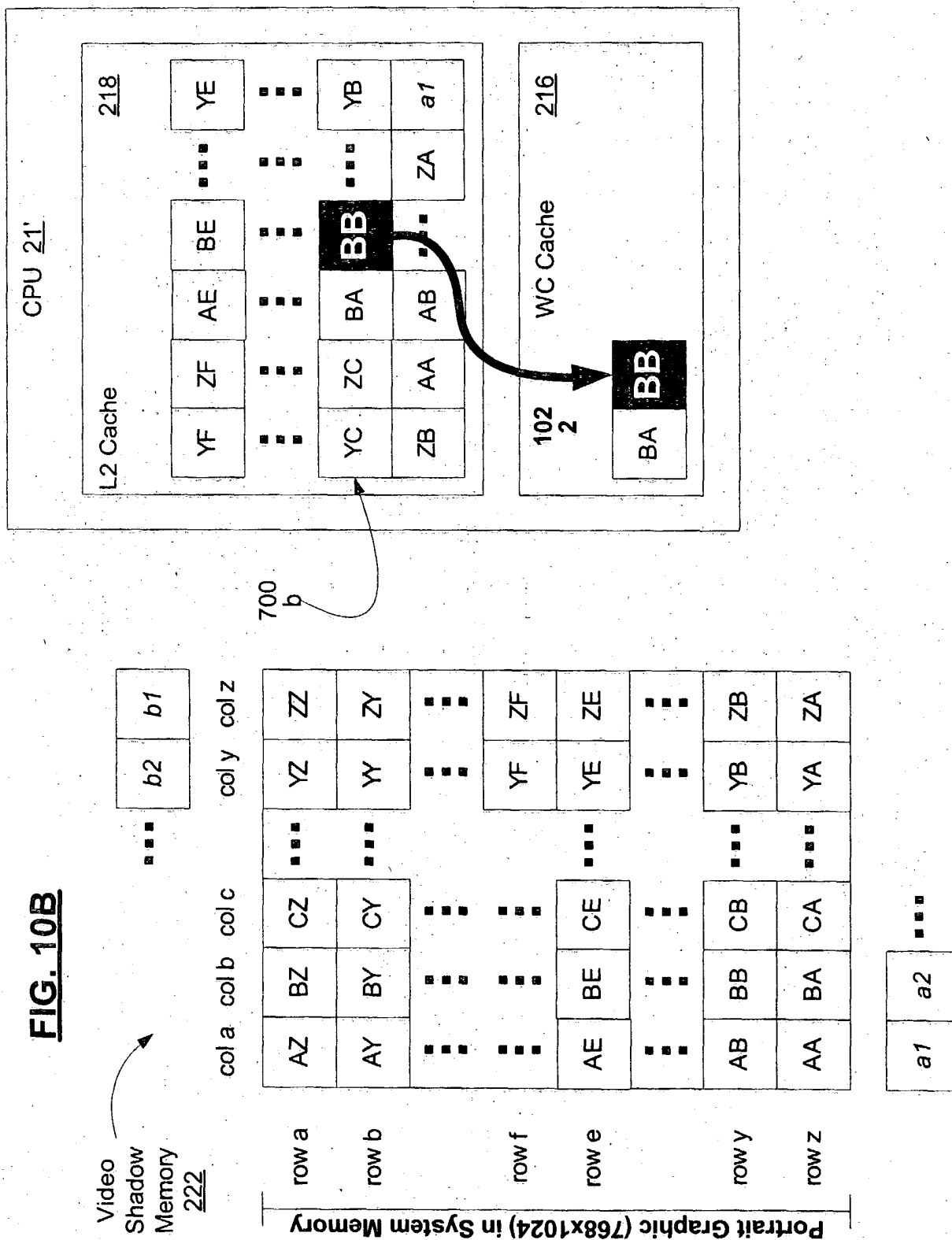
Write-
Combine
Method:
Rasterized
Draw
Pattern

Dual-Cache Method





Video
Shadow
Memory



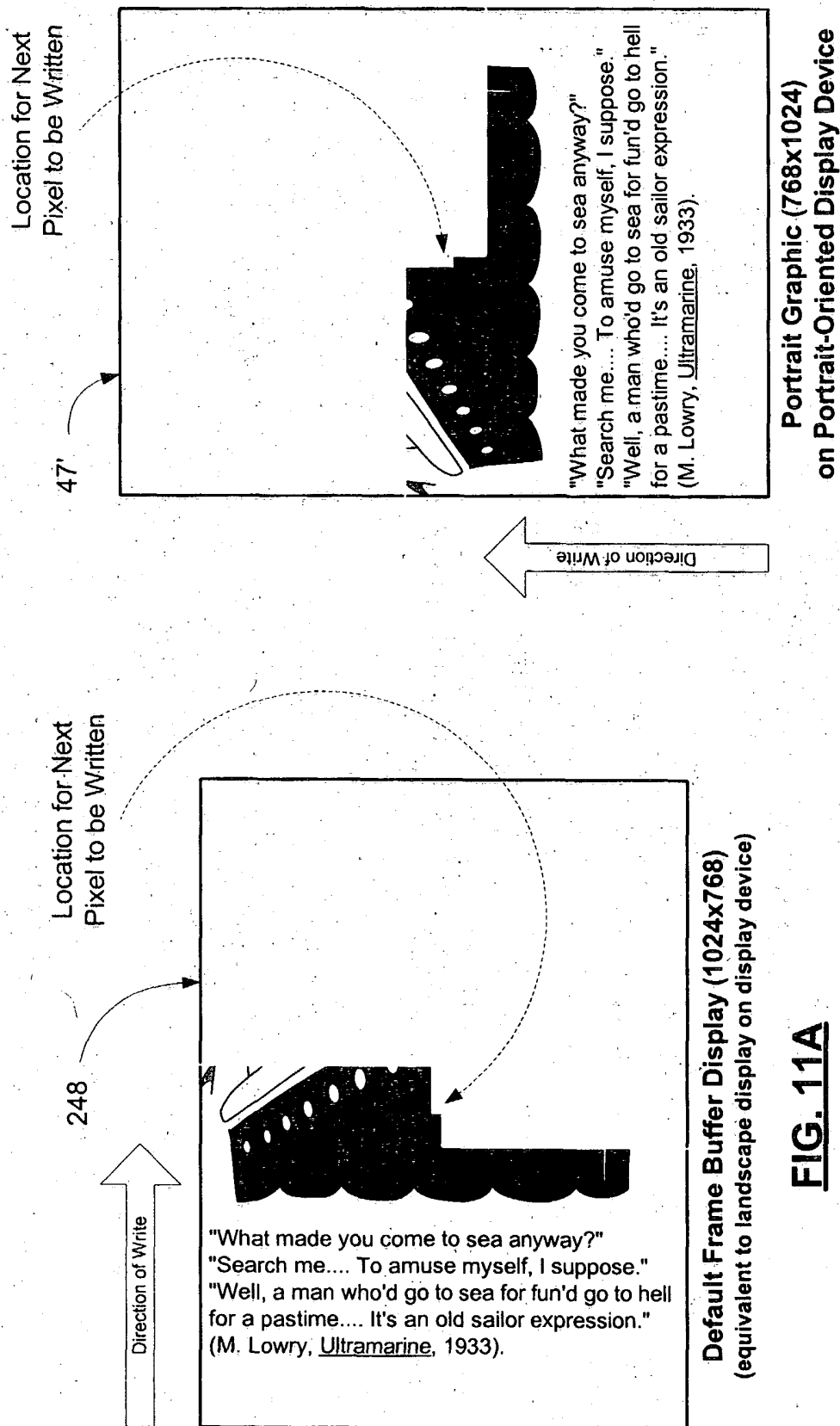


FIG. 11C

Portrait Graphic (768x1024)
on Portrait-Oriented Display Device

**Dual-Cache
Method:**

**Rasterized
Draw
Pattern**

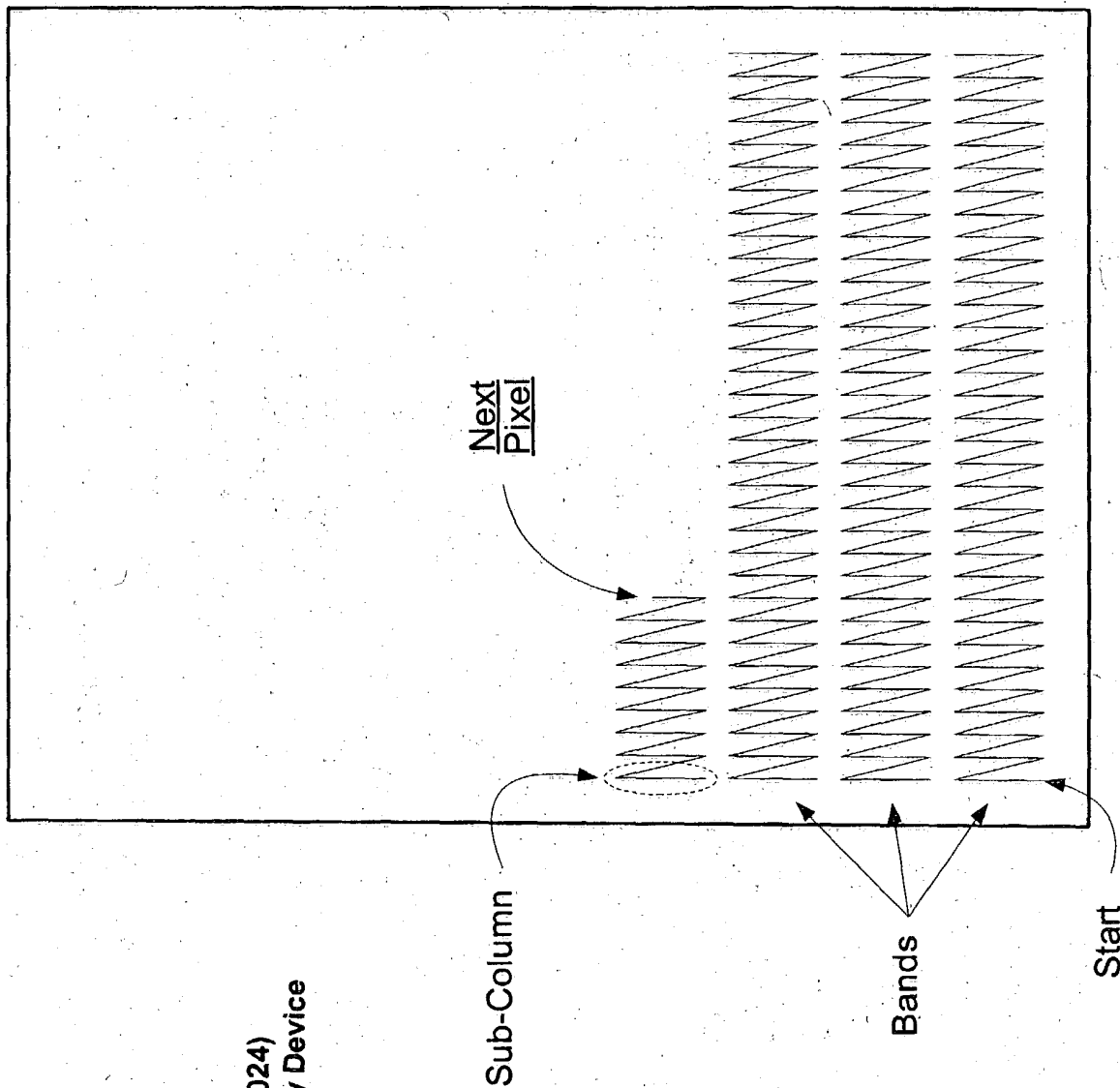


FIG. 12

ANALYSIS OF PRESENT INVENTION VERSUS EXISTING METHODS IN THE ART

General Analysis:

	RAM	FB	Writes	Total "Slow" Operations
Brute Force (or GPU):	786,432	786,432		2,359,296
CPU w/ L2 Cache:	768	786,432		1,573,632
Write Combine Only (approx):	786,432	768		787,968
Write-Combine & L2 Cache Optimization (approx):	768	24,576		49,920

RAM Reads = 1 slow operation
 FB Writes = 2 slow operations

Assumptions for Analysis:

	KB:	Bytes:
Write Combine Buffer:	4	4,096
Each Pixel:	0.0039	4
L2 Cache for Images:	128	131,072
Total Pixels (1024x768):	786,432	

*This is the amount of total L2 cache memory 'dedicated' to holding RAM Read info...

FIG. 13